The Future of Global Offshore Wind Power: The technology, economics and impact of wind power generation

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Description **Contents**

Recent environmental awareness resulting particularly from the phenomenon of warming has pushed renewable sources of energy towards the top of the power agenda. This has helped promote wind power as the most cost effective of the r technologies.

The Future of Global Wind Power: the technology, economics and impact of win generation is a management report that analyses the prospects for offshore wir generation across Europe, North America, Japan and the rest of the world. It pr data on the trends in wind power generation, to help you predict where and wh opportunities in offshore wind power generation will occur. The report explains identify potential sites and use advances in technology ensure the most effectiv resources. It also details the environmental costs and benefits of offshore wind reference to key stakeholders. These impacts are examined with reference to n European and International regulatory frameworks. Forecasts to 2020 are inclu respect of future capacity and changes in costs resulting from scale and technol advances.

Key issues addressed in this new management
- The operational and installation costs of wind power
- Legislative and regulatory constraints on wind power
- Environmental costs and benefits
- Geographical potential for offshore wind farms
- Future outlook for future offshore capacity and generation

The Future of Global Offshore Wind Power: the technology, economics and impact of wind power generation is based upon unique expert analysis and research, the results of which will explain:
- How much of the world's power consumption could be catered for by offshore
- The factors must be taken into account when planning an offshore wind farm.
- Differences between the scale and distribution of costs for offshore and land w
- The drivers and resistors likely to affect future development of offshore wind p
- Growth opportunities for the future.
- Forecasts for market trends until 2020

The Answers to Your Questions
- What are the main advantages and disadvantages of offshore wind power and factors need to be addressed during an environmental impact assessment?
- What are offshore wind power generation costs, and how do they compare to

such as coal, oil, nuclear and gas?
- What wind speed is needed to make offshore wind farms economically viable a
can these conditions be found?
- What is the expected lifespan of an offshore wind turbine, how will this chang
future?
- How has installed capacity grown over the last three years and what is the for
between now and 2020?
- What is the threshold of offshore wind power as a percentage of national gene
capacity?

Global Analysis
The condtions for offshore wind farms vary in different parts of the globe. This r
provides a closer look at the conditions under which offshore wind farms will thr
out:
- National regulatory procedures relating to offshore wind power across the rele
states and the US.
- Why European renewable energy policy makes it the best region for immediat
wind development.
- The opportunities for wind power resulting from Renewable Portfolio Standard
- How distance from shore, altitude, sea bed depth and maintenance schedules
potential and efficiency.
- Where are the geographical growth areas for offshore wind power.
- How to find the best wind speeds and hence maximise your potential generati
revenue.

The Value Proposition
Benefit from over 100 pages of expert insight and analysis, enabling you to:
- Understand the regulatory and legislative constraints on development of offsh
- Identify where wind speeds are suitable and if access to transmission grids wi
effective development.
- Anticipate the environmental impact of installations and save significant time
- Exploit existing technology and resources from the oil and gas industries.
- Develop the most cost effective construction and maintenance strategies.
- Predict changes in costs and revenues and associated profits.

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